



161-1655  
Atty. Dkt. No. 048331-1707  
JUN 10 2004  
TECH CENTER 1800/29C

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Tabor, et al.

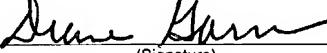
Title: ISOTHERMAL AMPLIFICATION  
OF DNA

Appl. No.: ~~09/480,878~~ 10/813693

Filing Date: 11/06/2003

Examiner:

Art Unit:

<b>CERTIFICATE OF MAILING</b>	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450, on the date below.	
<hr/> Diane Garcia (Printed Name)	
<hr/>  (Signature)	
<hr/> June 1, 2004 (Date of Deposit)	

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003.

Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without*

*Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

**RELEVANCE OF EACH DOCUMENT**

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even

entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

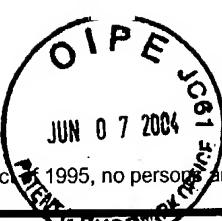
Respectfully submitted,

Date 12 January 2004

By Wesley B. Ames

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Attorney for Applicant  
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MODIFIED PTO/SB/08 (08-00)

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Substitute for form 1449, 1/10/01 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Filed on June 1, 2004 (use as many sheets as necessary)				<b>Complete if Known</b>	
Sheet	1	of	7	Application Number	09/480,878
				Filing Date	11/07/2003
				First Named Inventor	Stanley Tabor
				Group Art Unit	1655
				Examiner Name	
				Attorney Docket Number	048331-1701

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
	A1	4,942,130		Tabor et al.	07-17-1990
	A2	4,946,786		Tabor et al.	08-07-1990
	A3	5,194,370		Berninger et al.	03-16-1993
	A4	5,556,772		Sorge et al.	09-17-1996

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY
		Office <sup>3</sup>	Number <sup>4</sup>		
	A5	EP	0623682 A1	Becton, Dickinson and Company	
	A6	WO	00/41524	President and Fellows of Harvard College	
	A7	WO	96/05296	Institut for Molekulare Biotechnologie, E.V.	
	A8	WO	98/42689	Bayer Aktiengesellschaft	

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	A9	Almaula et al., "Nucleoside Dephosphate Kinase From Escherichia Coli," J. Bact. 177:2524 (1995)			
	A10	Applegren et al., "Further characterization of the human cell multiprotein DNA replication complex." Journal Of Cellular Biochemistry 59:91-107 (1995).			

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Filed on June 1, 2004

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Sheet 2 of 7

## Complete if Known

Application Number	09/480,878
Filing Date	11/07/2003
First Named Inventor	Stanley Tabor
Group Art Unit	1655
Examiner Name	
Attorney Docket Number	048331-1707

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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A11	Barnes, "PCR Amplification Of Up To 35-Kb DNA With High Fidelity And High Yield From Bacteriophage Templates," Proc. Natl. Acad. Sci. USA 91:2216 (1994)	
	A12	Beato, "Steroid hormone receptors: Many actors in search of a plot." Cell, 83:851-857, 1995	
	A13	Bernstein et al., "A 7-kDa Region Of The Bacteriophage T7 Gene 4 Protein Is Required Of Primase But Not For Helicase Activity," Proc. Natl. Acad. Sci. USA 85:396 (1988).	
	A14	Bernstein et al., "Characterization Of The Helicase And Primase Activities Of The 63-Kda Component Of The Bacteriophage T7 Gene 4 Protein," J. Biol. Chem. 264:13066 (1989)	
	A15	Blanco et al., "Terminal Protein -Primed DNA Amplification," Proc. Natl. Acad. Sci. USA 91:12198-12202, December (1994)	✓
	A16	Cheng et al., "Effective Amplification Of Long Targets From Cloned Insects And Human Genomic DNA", Proc. Natl. Acad. Sci. USA 91:5695 (1994)	✓
	A17	Cohen et al., "An Artificial Cell Cycle Inhibitor Isolated From A Combinatorial Laboratory," Proc. Natl. Acad. Sci. USA 95:14272 (1998)	✓
	A18	Doherty et al., "Bacteriophage T7 DNA ligase." J. Biol. Chem. 271:11083 (1996)	✓
	A19	Engler et al., "Bacteriophage T7 Dna Replication," J. Biol. Chem. 258:11197 (1983)	✓
	A20	Engler et al., "Two Forms Of The DNA Polymerase Of Bacteriophage T7," J. Biol. Chem. 258:11165-11173 (1983).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
Filed on June 1, 2004 (use as many sheets as necessary)					
Sheet	3	of	7	Attorney Docket Number	048331-1707

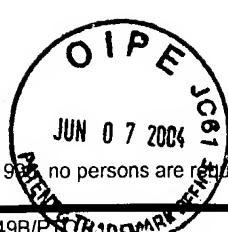
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	A21	Evans, The steroid and thyroid hormone receptor superfamily. Science, 240: 889-895, 1988.			✓
	A22	Ewing et al., "Base-Calling Of Automated Sequencer Traces Using Phred. II. Error Probabilities," Genome Research 8:186 (1998)			✓
	A23	Famulok et al., Oligonucleotide libraries – variatio delectat. Curr. Opin. Chem. Biol. 2:320 (1998)			✓
	A24	Gibson et al., "A Novel Method For Real Time Quantitative RT-PCR," (Genome Research 6:995 (1996)			✓
	A25	Greenstein et al., "Interaction Between The Replication Origin And The Initiator Protein Of The Filamentous Phage Fl: Binding Occurs In Two Steps," J. Molec. Biol. 197:157 (1987)			✓
	A26	Guatelli et al., "Isothermal, In Vitro Amplification Of Nucleic Acids By A Multienzyme Reaction Modeled After Retro Viral Replication," Proc. Natl. Acad. Sci. USA 87:1874 (1990)			✓
	A27	Guo et al., "The Linker Egion Between The Helicase And Primase Domains Of The Bacteriophage T7 Gene 4 Protein Is Critical For Hexamer Formation," J Biol. Chem. 274:30303 (1999),			✓
	A28	Harth et al., "Bacteriophage Fd Gene-2 Protein," Eur. J. Biochem. 119:663 (1981)			✓

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Substitute for form 1449B/PTO TRADEMARK OFFICE				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/480,878
Filed on June 1, 2004 (use as many sheets as necessary)				Filing Date	11/07/2003
				First Named Inventor	Stanley Tabor
				Group Art Unit	1655
				Examiner Name	
Sheet	4	of	7	Attorney Docket Number	048331-1707

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	A29	Higashitanit et al., "A Single Amino Acid Substitution Reduces The Superhelicity Requirement Of A Replication Initiator Protein," Nucl. Acids Res. 20:2685 (1992)			✓
	A30	Jesperson, T. et al., "Efficient Non-PCR-Medicated Overlap Extension Of PCR-Medicated Overlap Extension of PCR Fragments By Exonuclease "End Polishing", Biotechniques 23, No. 1:48-52 (1997)			✓
	A31	Kerr et al., "Gene 6 Exonuclease Of Bacteriophage T7," J Biol. Chem. 247:305 (1972)			✓
	A32	Kim et al., "Purification And Characterization Of The Bacteriophage T7 Gene 2.5 Protein," J. Biol. Chem. 267:15022 (1992)			✓
	A33	Lee et al., "Coordinated Leading And Lagging Strand DNA Synthesis On A Minicircular Template," Mol. Cell. 1:1001 (1998)			✓
	A34	Lohman et al., "Large Scale Overproduction And Rapid Purification Of The Escherichia Coli SSB Gene Product. Expression Of The SSB Gene Under PL Control," Biochemistry*			✓
	A35	Mangelsd and Evans, "The RXR heterodimers and orphan receptors. Cell, 842-850.			✓
	A36	Mendelman et al., "Evidence For Distinct Primase And Helicase Domains In The 63-KDA Gene 4 Protein Of Bacteriophage T7," J.Biol.Chem 268:27208 (1993)			✓

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Filed on June 1, 2004

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Sheet 5 of 7 Attorney Docket Number 048331-1707

## Complete if Known

Application Number	09/480,878
Filing Date	11/07/2003
First Named Inventor	Stanley Tabor
Group Art Unit	1655
Examiner Name	

JUN 10 2004  
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A37	Matson and Richardson, "DNA-Dependant Nucleoside 5'- Triphosphatase Activity Of The Gene 4 Protein Of Bacteriophage T7," J Biol Chem. 258:14009-14016 (1983)	
	A38	Mendelman et.al., "Roles Of Bacteriophage T7 Gene 4 Proteins In Providing Primase And Helicase Functions In Vivo," Proc. Natl. Acad. Sci. USA 89:10638 (1992)	
	A39	Meyer et al., "Replication Of Phage FD RF With FD Gene 2 Protein And Phage TF Enzymes," J. Biol. Chem. 256:58 10 (1981)	
	A40	Mitra and Church, "In Situ Localized Amplification And Contact Replication Of Many Individual DNA Molecules," Nucleic Acids Res. 27 (24):E34 (1999)	
	A41	Notarnicola et al., "A Domain Of The Gene 4 Helicase/Primase Of Bacteriophage T7 Required For The Formation Of An Active Hexamer," J. Biol. Chem 273:5260 (1998)	
	A42	Notarnicola et al., "The Nucleotide Binding Site Of The Helicase/Primase Of Bacteriophage T7," J. Biol. Chem. 268:27198 (1993)	
	A43	Park et al., "Formation Of A DNA Loop At The Replication Fork Generated By Bacteriophage T7 Replication Proteins," J. Biol. Chem. 273:5260 (1998)	
	A44	Saiki et al., "Enzymatic Amplification Of B-Globin Genomic Sequences And Restriction Site Analysis For Diagnosis Of Sickle Cell Anemia," Science 230:1350-1354 (1985)	

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Sheet 6 of 7

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Application Number	09/480,878
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	A45	Saiki et al., "Primer-Directed Enzymatic Amplification Of DNA With A Thermosatble DNA Polymerase," Science 239:487-491 (1988) <input checked="" type="checkbox"/>
	A46	Salas, "Protein Priming Of DNA Replication," Ann. Rev. Biochem 60:39 (1991) <input checked="" type="checkbox"/>
	A47	Sarkar et al., "Removal of DNA contamination in polymerase chain reaction reagents by ultraviolet irradiation." Methods Of Enzymology, 218:38 1-388 (1993)
	A48	Scherzinger et al., "Role Of Bacteriophage T7 DNA Primase In The Initiation Of DNA Strand Synthesis," Nucl. Acids Res. 4:4151 (1977)*
	A49	Scherzinger et al., "Bacteriophage-T7-induced DNA-priming protein : A novel enzyme involved in DNA replication. Eur. J. Biochem 72:543-558 (1977)."
	A50	Tabor et al., "Eschericia Coli Thioredoxin Confers Processivity On The Dna Polymerase Activity Of The Gene 5 Protein Of Bacteriophage T7," J. Biol. Chem. 262:16212-16223 (1987)
	A51	Tabor et al., "Selective Inactivation Of The Exonuclease Activity Of Bacteriophage T7 DNA Polymerase By In Vitro Mutagenesis," J. Biol. Chem. 262:6447-6458 (1989)
	A52	Tabor et al., "DNA Sequence Analysis with a Modified Bacteriophage T7 DNA Polymerase." Journal Of Biological Chemistry 265(14):8322-8328 (1990)

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Sheet

7

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	A53	Tyagi et al., "Extremely Sensitive Background-Free Gene Detection Using Binary Probes And QB Replicase," Proc. Natl. Acad. Sci. USA 93:5395 (1996)	
	A54	Walker et al., "Isothermal In Vitro Amplification Of DNA By A Restriction Enzyme/DNA Polymerase System," Proc. Natl. Acad. Sci. USA 89:392 (1992)	
	A55	Werle, <u>Laboratory Methods For The Detection Of Mutations And Polymorphisms In DNA</u> , ed. Taylor "Direct Sequencing of Polymerase chain reaction products." pp. 163-174 (1997)	
	A56	Zhang et al., "Amplification Of Target-Specific, Ligation-Dependant Circular Probe," Gene 211:277 (1998)	

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